Notice of Allowability	Application No.	Applicant(s)
	09/870,899	WILSON ET AL.
	Examiner	Art Unit
	Shobha Kantamneni	1617
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not included n will be mailed in due course. THIS
1. This communication is responsive to <u>10/05/2005</u> .		
2. \boxtimes The allowed claim(s) is/are $\underline{1-6,8,9,13-20,23,25,41}$ and $\overline{71-6,8,9,13-20,23,25,41}$	<u>-102</u> .	
 3. ☐ Acknowledgment is made of a claim for foreign priority unall All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	E Nation of Information	Patent Application (PTO 452)
Notice of References Cited (PTO-092) Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	Patent Application (PTO-152)
	Paper No./Mail Da	ite
 Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date 9/30/05, 12/10/04 	08), 7. Examiner's Amend	ment/Comment
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Statem	ent of Reasons for Allowance
of Biological Material	9. Other	

EXAMINER'S STATEMENT OF REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

The present invention is directed to a method of increasing the reproductive performance of a female swine, comprising the step of administering to the female swine a feed composition comprising a marine animal product; wherein the marine animal product comprises C20 and C22 omega-3 fatty acids or esters thereof; and wherein the feed composition as a final mixture comprises about 0.025 % to about 2 % by weight of marine animal product.

The closest prior art reference, Fritsche et al. (Enrichment of Omega-3-Fatty Acids in Suckling Pigs by Maternal Dietary Fish Oil Supplementation," J. Anim. Sci., Vol.71, pp.1841-1847, 1993) disclose that fish oil compositions, menhaden fish oil which is known to comprise C20 and C22 omega-3 fatty acids are useful in dietary compositions to feed sows. The reference lacks the particular amounts of fish oil in the compositions. Further, Boudreaux et al. (J. American Animal Hospital Assoc., Vol. 33, pp. 235-243, 1997) discloses that the range of the ratio of omega-6 fatty acids to omega-3 fatty acids in the composition to be administered to animals is within the instant claim. Neither Fritsche et al. nor Boudreaux et al. teach that the administration of fish oil compositions provide a benefit to female swine reproductive performance, including pig survival, number of pigs born per sow, birth weight, and weaning weights. Thus, they would not be any motivation to combine or modify the references to achieve

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the instant claimed benefit, by feeding female swine a marine animal product comprising C20 and C22 omega-3 fatty acids or esters thereof.

The closest prior art reference, Abayasekare et al. discloses that dietary fatty acid compositions, i.e., fish oil, comprising instant fatty acids such as omega-6 fatty acids to omega-3, are useful in increasing the female performance, i.e., follicular development in the ovary, ovaulation, corpus luteum function, pregnancy, parturition, and lactation. However, Abayasekare et al. does not expressly disclose the dietary fatty acid compositions therein to be administered to female swine, and the particular amounts (percentage) of fish oil in the composition there, 0.025% to 2% by weight. Further, Abayasekara concludes that there is no reasonable expectation of success in the use of polyunsaturated fatty acids to enhance fertility. Thus, they would not be any motivation to modify the reference to achieve the instant claimed benefit i.e to enhance fertility by feeding female swine a marine animal product comprising C20 and C22 omega-3 fatty acids or esters thereof.

The prior art reference, Yeh et al. ("Enrichment of (n-3) fatty acids of suckling rats by maternal dietary menhaden oil, J. Nutr., Vol. 120, page 436, 1990) discloses that the enrichment of the n-3 fatty acids in newborns rats through milk provided by lactating mothers fed with high diet containing menhaden oil fish oil compositions, menhaden fish oil which is known to comprise C20 and C22 omega-3 fatty acids are useful in dietary compositions to feed sows, increases the weight of suckling rats by 5 to 10 %. However, the reference teaches the feeding of the menhaden fish oil to rats after the birth,

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whereas the applicants invention is to increase the reproductive performance of female swine by feeding the swine with marine animal product i.e before giving birth.

The instant method of administering to the female swine a feed composition comprising a marine animal product; wherein the marine animal product comprises C20 and C22 omega-3 fatty acids or esters thereof; and wherein the feed composition as a final mixture comprises about 0.025 % to about 2 % by weight of marine animal product, provides benefits to female swine reproductive performance, including pig survival, number of pigs born per sow, birth weight, and weaning weights.

Thus, the method of the present invention is novel and unobvious over the prior art

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shobha Kantamneni whose telephone number is 571-272-2930. The examiner can normally be reached on Monday-Friday, 8am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreeni Padmanabhan can be reached on 571-272-0629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Application/Control Number: 09/870,899

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SPERMITAL MANABHAN
SUPERVISORY PAVENT EXAMINER

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